



February 9, 2004

Jim Barber, Section Chief
Solid Waste Section, NCDENR
1646 Mail Service Center
Raleigh, NC 27699

Perm/Co ID #	Date	Doc ID#
43-02	01/19/04	DII-254P2

PO Box 940
Lillington, NC 27546

ph: 910-893-7536
fax: 910-814-3967

RE: Dunn Erwin Landfill, Harnett County, NC
LCID Permit Extension Request
Permit # 43-02



Mr. Barber:

As you are aware, Harnett County currently operates a LCID cell under Permit # 43-02. We are requesting an extension of the LCID portion of this permit at this time.

During the meeting with our engineer, C. T. Clayton, Sr., P.E. in August 2003, you requested that we look at several items of interest concerning the LCID cell:

- Amount of air spaced utilized to date
- Amount of air space remaining and estimated life left in cell
- Current fill placement and how fill has adhered to the original phased fill plan

A topographic survey was completed in October 2003 of the LCID cell. Currently, based on this survey and the average waste inflow rates for the previous three years, enough air space is available to allow waste to be deposited in the cell until approximately the year 2019 (see attached calculation).

In addition to utilizing the survey to ascertain space available, it was also utilized to analyze the current fill placement and how the fill has adhered to the original phased fill plan as included in the original Construction Application (October 1997). It was found that the fill closely adhered to the original phased fill plan.

Utilizing the survey and recent inflow rate data, an updated phase and closure plan was created by our engineer, C. T. Clayton, Sr., P. E. This plan is attached for your review and use.

Should you have questions concerning this request, please call me directly or C. T. Clayton at (252) 671-6979.

Sincerely,

A handwritten signature in cursive script that reads "Jerry Blanchard".

Jerry Blanchard, Director
Harnett County Solid Waste Management

Attachment

cc: file, C. T. Clayton, Sr., P. E.



Subject DUNN-ERWIN LANDFILL Sheet No. 1 of 1
EXPECTED LIFE Job No. RA00240-12 CTF# 3012
LCID CELL By JWL Date 6 JAN 04

AVERAGE INTAKE 2000-2003
4,700 tons/yr *

ASSUME

1. 1000 lb / cy ∴ 2 cy/ton
2. WEEKLY COVER SOIL RATIO 8:1
FOR EACH 8 cy OF WASTE,
1 cy OF COVER SOIL

TOPO

158,815 cy OF SPACE REMAINING
(DOES NOT INCLUDE FINAL COVER)
(FROM OCT. 2003 SURVEY)

VOLUME PER YEAR

$$4,700 \text{ tons/yr} (2 \text{ cy/ton}) = 9,400 \text{ cy/yr}$$
$$9,400 \text{ cy trash} (\frac{1}{8} \text{ SOIL RATIO}) = 1,175 \text{ cy COVER SOIL}$$
$$\text{TOTAL VOLUME} = 9,400 + 1,175 = \underline{10,575 \text{ cy/yr}}$$

REMAINING LIFE OF CELL

$$158,815 \text{ cy} \div 10,575 \text{ cy/yr} = \underline{15.02 \text{ yr}}$$

* INCLUDES VOLUME FROM HURRICANE FLOYD.
ASSUMES HURRICANE, ICE STORM, ETC.
EVERY THREE YEARS.

DUNN/ERWIN LANDFILL

LAND CLEARING AND INERT DEBRIS LANDFILL

HARNETT COUNTY NORTH CAROLINA

PHASE AND CLOSURE PLAN

JANUARY 2004

INDEX

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PROPOSED CLOSURE PLAN	2
APPROXIMATE 5 YEAR PHASE PLAN	3



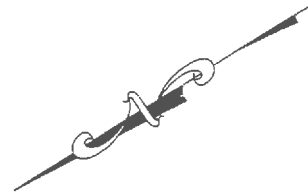
Clayton, Sr., P.E.
C.T. Clayton, Sr., Professional Engineer

PO BOX 12794
NEW BERN, NC 28561

Phone: 252 672-0304
Home fax: 910 897-0860

Mobile: 252 671-6979
Fax: 252 672-8577

	DESIGNED CTC JR.
	DRAWN JWL
	CHECKED CTC SR.
	PROJ. ENG. CTC SR.
	DATE: JANUARY 2, 2004
	PROJ. # 0003012
	DWG FILE 798P7HAS.DWG
2-7-04 DATE	

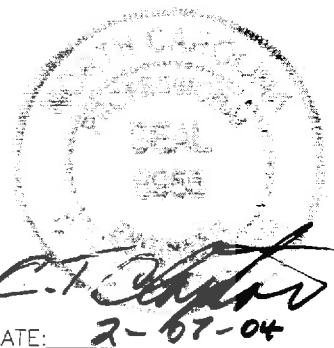
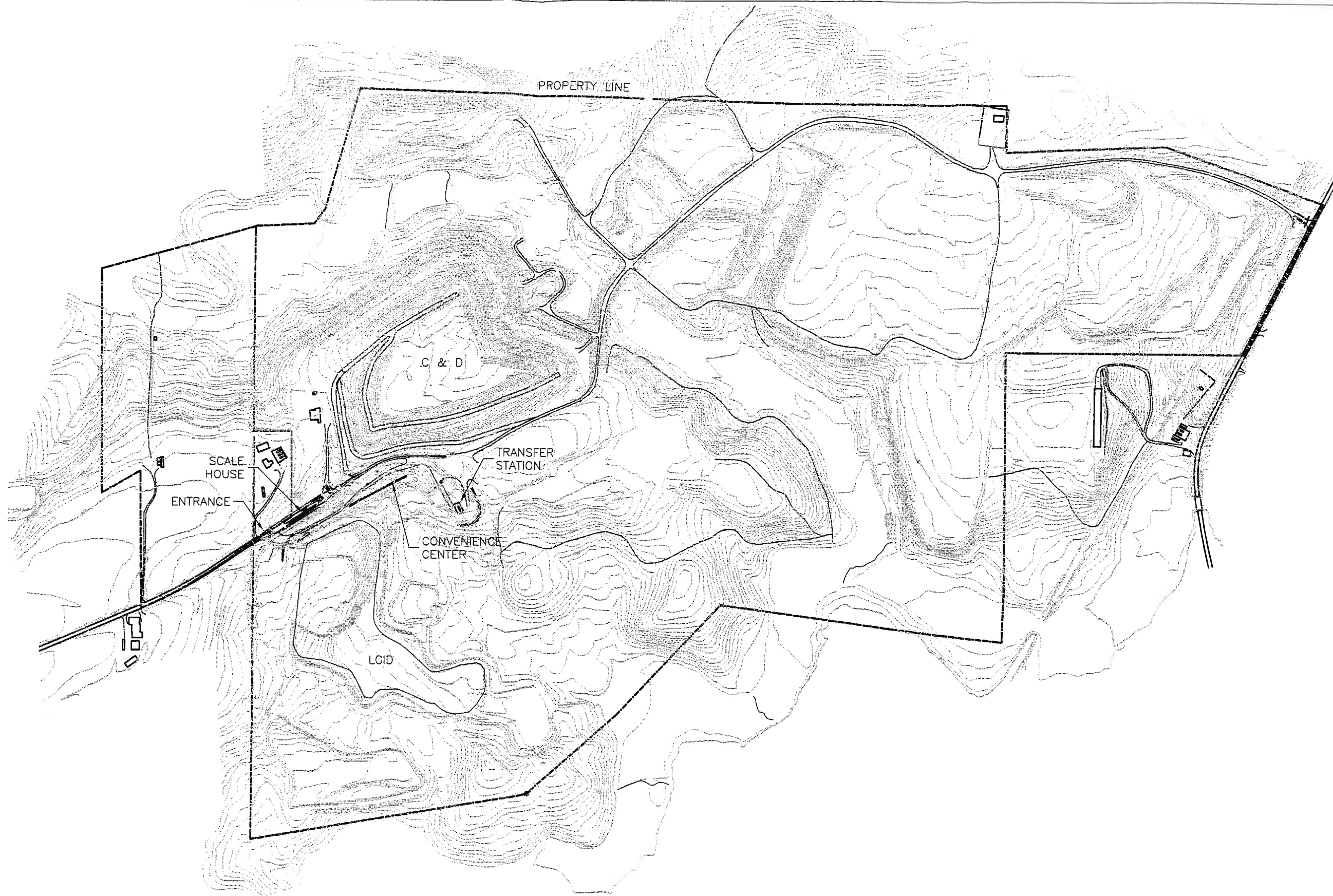


LEGEND

EXISTING INDEX CONTOUR
EXISTING CONTOUR

NOTE:

1. EXISTING TOPO UPDATED BY STREAMLINE SURVEYING OCTOBER 2003.



DATE: 2-67-04

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OVERALL SITE PLAN
of
DUNN/ERWIN LANDFILL
LAND CLEARING AND INERT DEBRIS LANDFILL
NCDENR SOLID WASTE PERMIT NUMBER 43-02

HARNETT COUNTY NORTH CAROLINA

PROJECT #: 0003012
PROJ. ENG.: CTC
DRAWN BY: JWL
FIELD FILE: TOPO310e03.dwg
CAD FILE: 796P7MAS.DWG

SCALE: 1" = 500'
DATE: JANUARY 9, 2004

SHEET # : 1 OF 3

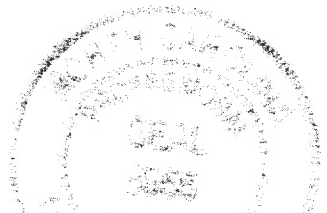
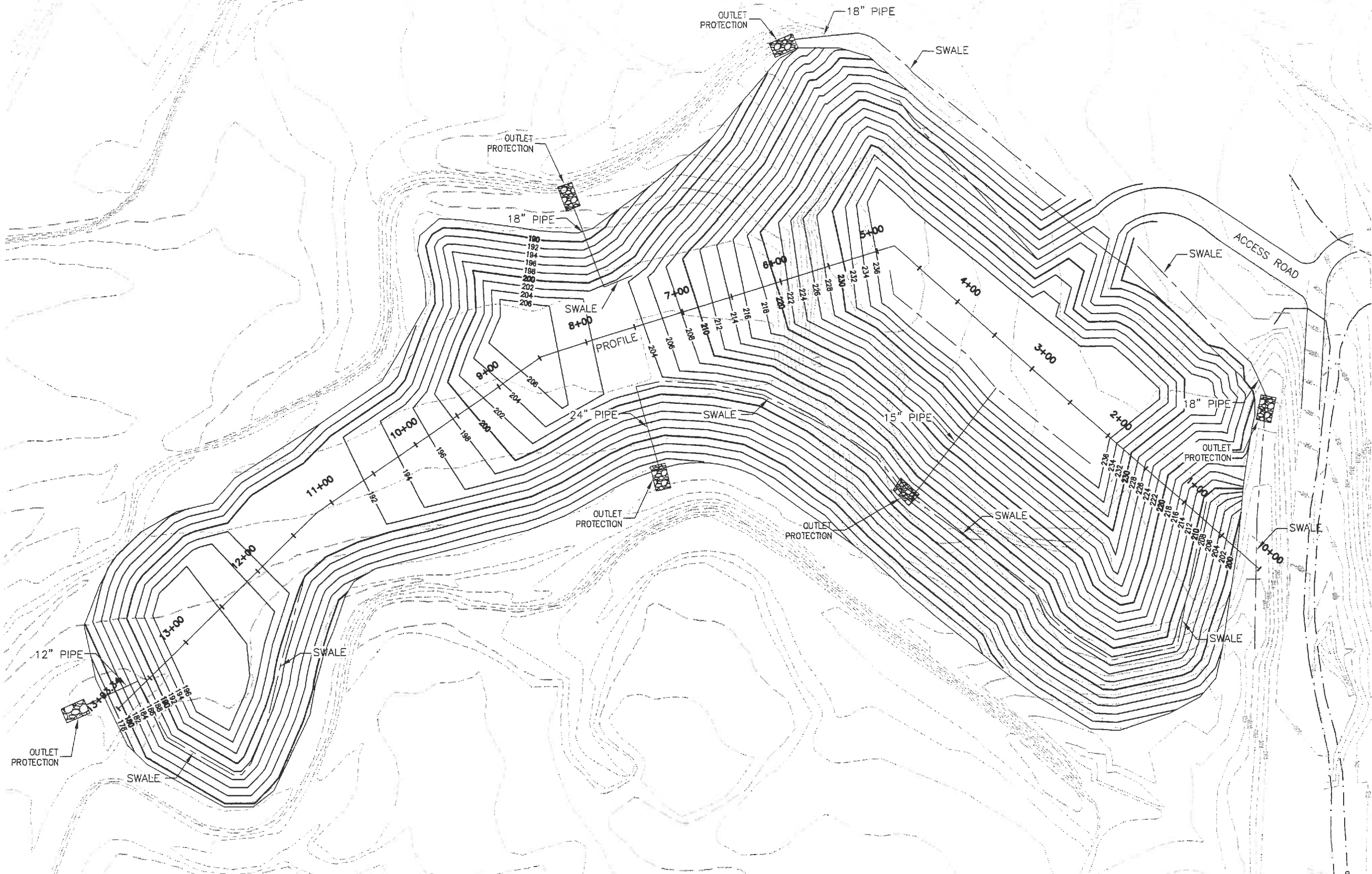


LEGEND

- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR

NOTES:

1. EXISTING TOPO UPDATED BY STREAMLINE SURVEYING OCTOBER 2003.
2. CLOSURE CONTOURS ARE AS PRESENTED IN THE ORIGINAL APPLICATION DATED 11-25-97.

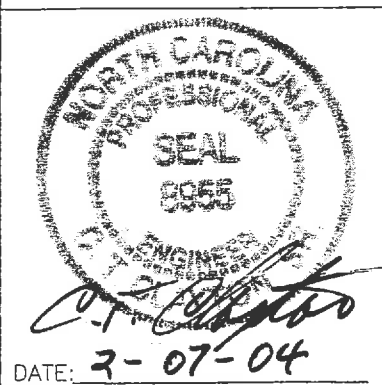
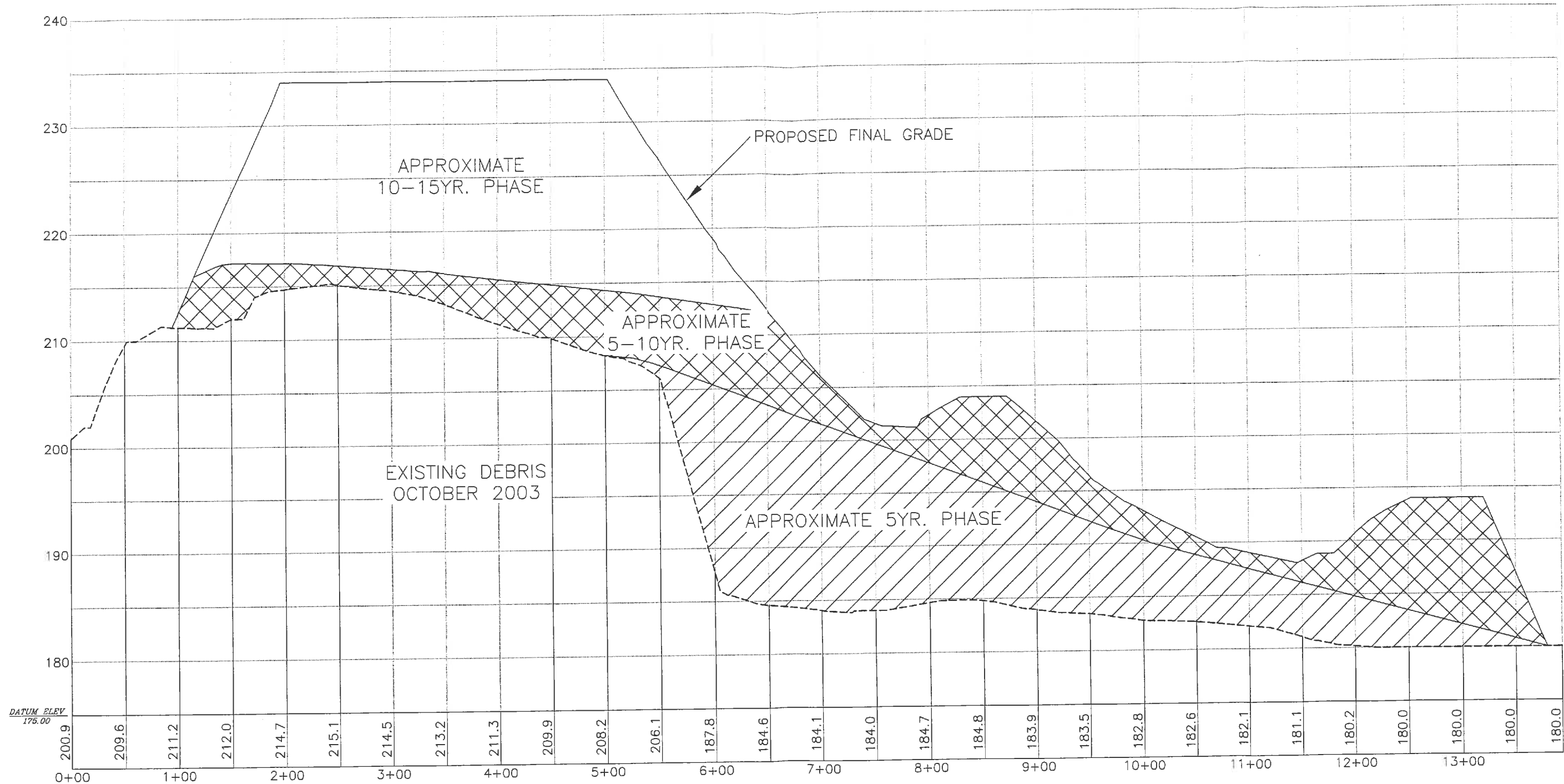


C.T. Clayton
DATE: 2-07-04

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PROPOSED CLOSURE PLAN
of
DUNN/ERWIN LANDFILL
LAND CLEARING AND INERT DEBRIS LANDFILL
NCDENR SOLID WASTE PERMIT NUMBER 43-02
HARNETT COUNTY NORTH CAROLINA

PROJECT #: 0003012
PROJ. ENG.: CTC
DRAWN BY: JWL
FIELD FILE: TOPO31oc03.dwg
CAD FILE: 796P7MAS.DWG
SCALE: 1" = 100'
DATE: JANUARY 9, 2004
SHEET #: 2 OF 3



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APPROXIMATE 5 YEAR PHASE PLAN
 of
DUNN/ERWIN LANDFILL
 LAND CLEARING AND INERT DEBRIS LANDFILL
 NCDENR SOLID WASTE PERMIT NUMBER 42-02
 HARNETT COUNTY NORTH CAROLINA

PROJECT #: 0003012
 PROJ. ENG.: CTC
 DRAWN BY: JWL
 FIELD FILE: TOP031003.dwg
 CAD FILE: 796P7MAS.DWG
 SCALE: 1" = 100'
 DATE: JANUARY 9, 2004
 SHEET #: 3 OF 3